

KLT and KLS Series

Tank Top Return Line Filters



Applications for KLT and KLS Filters

- Mobile Equipment
- Construction, Refuse
- Industrial Power Units
- Machine Tool
- Oil Field

Parker's new KLS /KLT Tank Top Return Line Filters are ideally suited for Mobile and Industrial high to medium flow return applications, from 30 to 120 GPM. This cost-effective, in-tank filter series provides maximum flow and dirt holding capacity for longer filter element life in a simple, easy-to-install-and-service assembly.

The generous element size with extensive media area ensures continuous filtration

during cold start up conditions. The inside-to-out flow path with closed bottom provides additional assurance that all contaminants remain captured during element service removal.



The filters have a pressure rating of 150 psi static and a temperature range of -40°F to 225°F and are available in a wide range of high-efficiency Microglass III media in 2, 5, 10 and 20 micron for all system cleanliness requirements. Bypass valves are built into the element to ensure further performance integrity. A new bypass is provided with each element change.

This rugged design meets the needs for the demanding applications in mobile off -highway and on-highway applications for construction equipment, logging, refuse vehicles, mining, oil and gas recovery, marine, and industrial power units.

Feature	Advantage	Benefit
Tank top mounted filter	Saves space and reduces mounting hardware	 Lower cost, easy to integrate KLS model directly retrofits competitive housing
Two-piece head and element construction perforated with metal outer wrap	 No bowl required Provides excellent flow diffusing, eliminating aeration 	Reduced cost and assembly weightImproves performance
High efficiency Microglass III media maximizing filtration area	 Combines high particle capture efficiency with high dirt holding capacity and lower ∆P 	 Cleaner fluids, longer lasting with fewer service intervals Continuous filtration for cold start ups Lower operating costs
Element design includes integral disposable bypass valve with closed bottom end cap	 New bypass with each element change Ensures captured contaminants are removed with each element change 	 Ensures reliable bypass performance No leakage Cleaner fluids reduce risk for contamination during service
Magnetic prefiltration	Removes large ferrous contaminants	Extends element lifeVisual indication of component wear
Fill and gauge ports	 Add fluid through high performance filter media Gauge ports allow for added instrumentation 	 Initial fluid integrity extends system component life Monitor element life



Specifications: KLT/KLS

Pressure Ratings:

Maximum Allowable Operating Pressure

(MAOP): 150 psi (10.3 bar)

Operating Temperatures:

-40°F (-40°C) to 225°F (107°C)

Element Burst Rating:

150 psid (10.3 bar)

Filtration Rating:

2, 5, 10 & 20 Microns at Beta > 200

Element Condition Indicators:

Gauge: 0-60 psi color coded

Switch: SPDT 5A @ 24 VDC and 250 VAC

Materials:

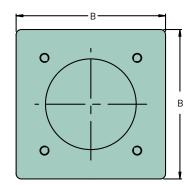
Head & Cover: Cast Aluminum Alloy

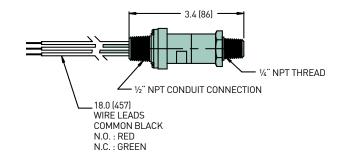
Bypass Valve: Nylon Filter Media: Microglass III Element End Caps: Nylon

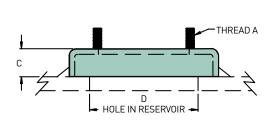
Weights (approximate):

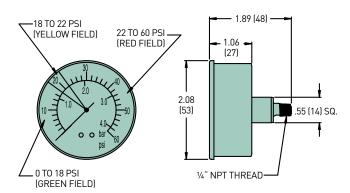
KLT-2 3 lbs. (1.36 kg) KLT-4 4 lbs. (1.81 kg) KLT(S)-7 8 lbs. (3.63 kg) KLT(S)-8 10 lbs. (4.54 kg)

KLT Weld Plate Drawings









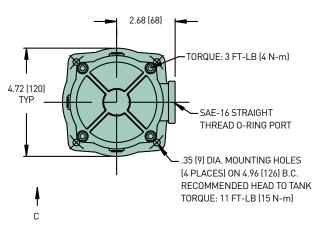
Linear Measure: inch (mm)

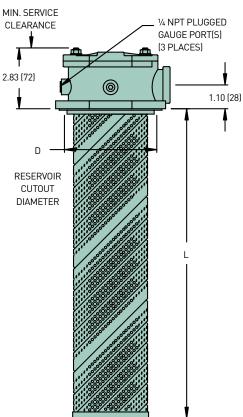
Dimensions	KLT Filter Model		
Dimensions	KLT-2/KLT-4	KLT-7/KLT-8	
А	5/16-18 UNC-2A	3/8-16 UNC-2A	
В	5.33 (135)	7.15 (182)	
С	1.00 (25)	1.00 (25)	
D	4.50/3.75 (114/95)	6.25/5.50 (159/140)	



KLT Drawings

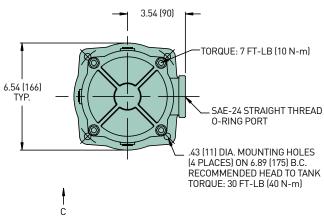
KLT 2 / KLT 4

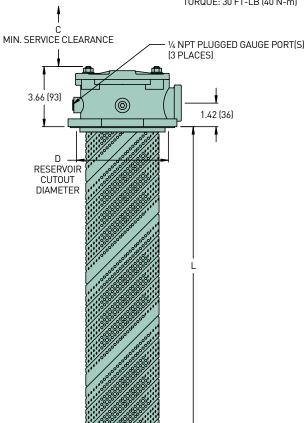




Dimensione	KLT Filter Model		
Dimensions	KLT-2	KLT-4	
С	5.75 (146)	9.50 (241)	
L	4.16 (106)	7.75 (197)	
D	3.6/3.56 (93/90)		

KLT7/KLT8





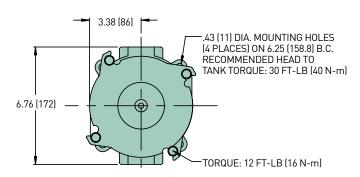
Dimensions	KLT Filter Model		
Dimensions	KLT-7	KLT-8	
С	13.00 (330)	19.25 (489)	
L	11.46 (291)	17.70 (450)	
D	5.36/5.26 (136/133)		

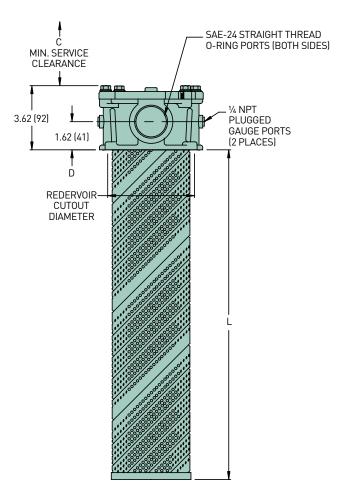
Linear Measure: inch (mm)



KLS Drawing

KLS 7 / KLS 8



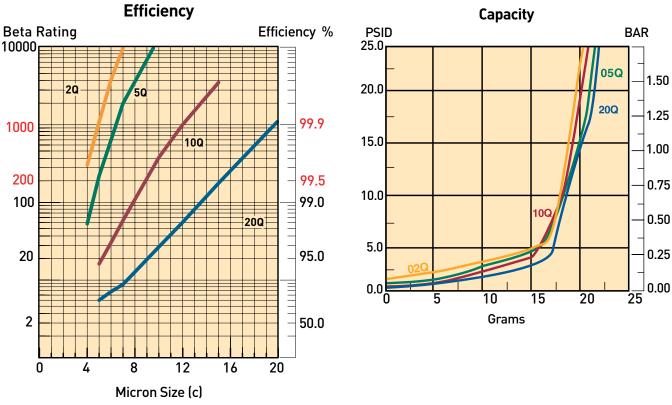


Dimonoiono	KLS Filter Model		
Dimensions	KLS-7	KLS-8	
С	13.00 (330)	19.25 (489)	
L	L 11.46 (291) 17.70 (4		
D	5.00/4.80 (127/122)		

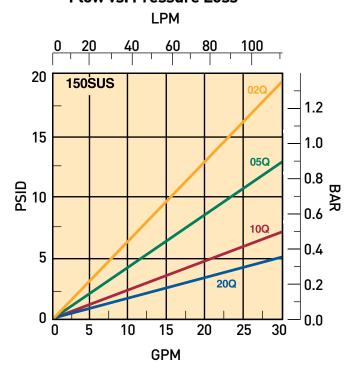
Linear Measure: inch (mm)



KLT-2 Element Performance

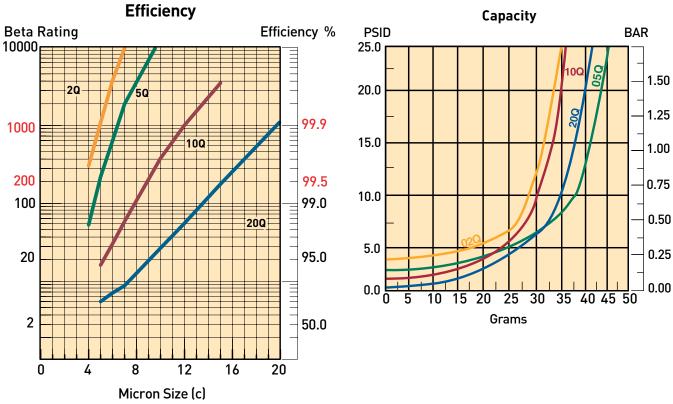


Multipass tests run @ 15 gpm to 25 psid terminal - 10 mg/L BUGL

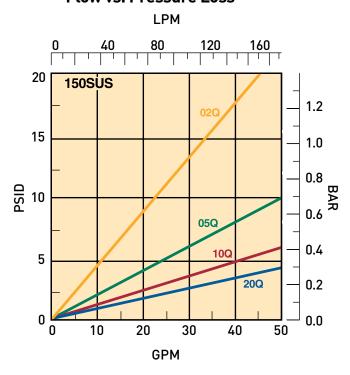




KLT-4 Element Performance

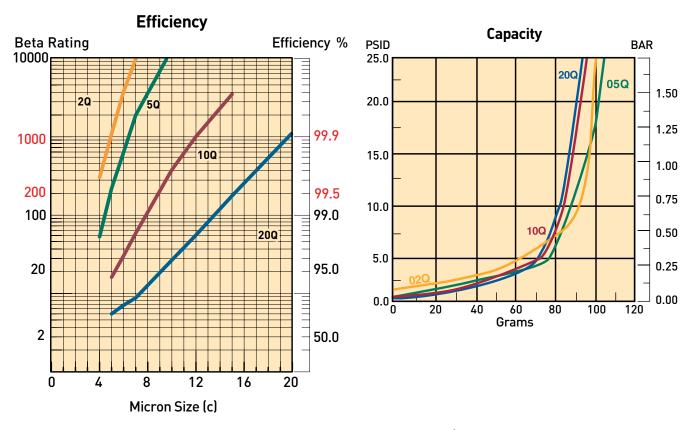


Multipass tests run @ 30 gpm to 25 psid terminal - 10 mg/L BUGL

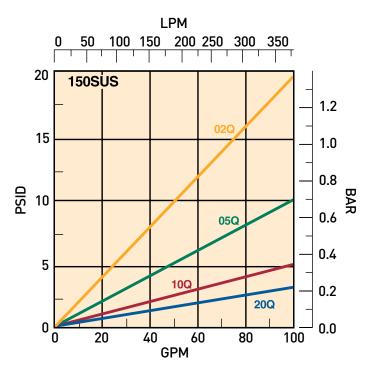




KLT/S-7 Element Performance

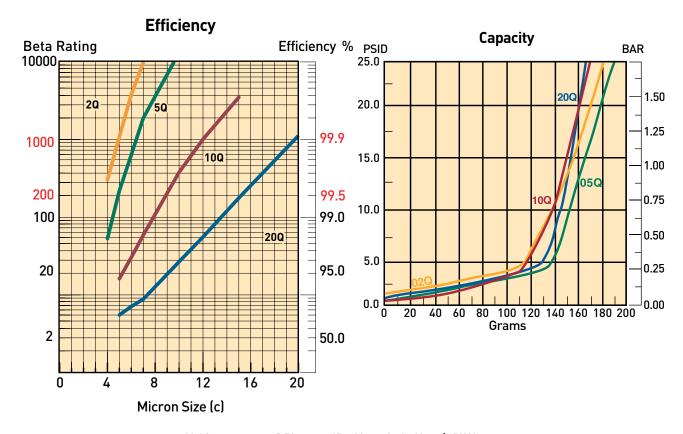


Multipass tests run @50~gpm to 25~psid terminal - 10~mg/L~BUGL

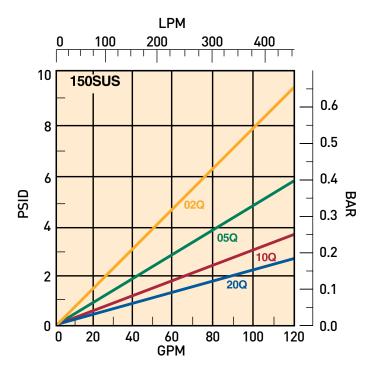




KLT/S-8 Element Performance



Multipass tests run @ 70 gpm to 25 psid terminal - 10 mg/L BUGL





Operating and Maintenance Instructions Model KLT and KLS Tank Top Filters

A. Mounting

- 1. Standard mounting.
 - a. Cut proper size hole in the top of the reservoir.
 - b. Drill holes for studs within the proper bolt circle.
 - c. Set the filter into the cutout hole and secure with proper size bolts, nuts and lock washers.
 - d. Torque nuts in accordance with drawing.
- 2. Mounting procedure using weld plate.
 - a. Rough cut proper size hole in the top of reservoir.
 - b. Weld the weld plate concentric to the rough cut hole.
 - c. Mount the filter onto the studs and secure with nuts and lock washers.
 - d. Torque nuts in accordance with drawing.
- 3. Utilize proper fittings.

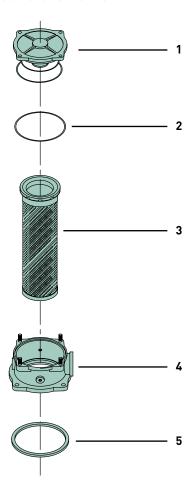
B. Start-Up

- 1. Check for and eliminate leaks upon system start-up.
- 2. Check differential pressure indicator, if installed, to monitor element condition.

C. Service

 An element must be serviced when the indicator indicates service is required.

NOTE: If the filter is not equipped with an indicator, the element should be serviced according to machine manufacturer's instructions.



Parts List

	. u. to =10		
Index	Description	Part Number	Quantity
1	Cover Assembly		
'	(Includes Cover O-Ring)		
	KLT2/KLT4	937049	1
			1
	KLT7/KLT8	937047	•
	KLS7/KLS8	937048	1
2	Cover 0-Ring		
	KLT2/KLT4, Nitrile	N72239	1
	KLT2/KLT4, FKM	V72239	1
	KLT7/KLT8, Nitrile	N72251	1
	KLT7/KLT8, FKM	V72251	1
	KLS7/KLS8, Nitrile	N72251	1
	KLS7/KLS8, FKM	V72251	1
3	Element (See Model Code Page)		
4	Filter Head (Includes Gauge		
	Plugs & Studs)		
	KLT2/KLT4	5841216	1
	KLT7/KLT8	5841224	1
	KLS7/KL8	937318	1
5	Tank Gasket		
	KLT2/KLT4	108x98x5.5B	1
	KLT7/KLT8	152x136x6B	1
	KLS7/KLS8	N72355	1
Not Shown	Weld Plate		
	KLT2/KLT4	300041	1
	KLT7/KLT8	300042	1
	KLS7/KLS8	C.F.	1
Not Shown	Pressure Switch	NS-1C-19R/EL	1
Not Shown	Pressure Gauge	936913	1

C.F. = Consult Factory

D. Servicing Dirty Element

- 1. Shut system down to assure that there is NO PRESSURE OR FLOW into the filter housing.
- 2. Remove the filter cover.
- 3. Remove and discard the contaminated element cartridge.

E. Before Installing a New Element Cartridge

- 1. Clean the magnetic core with a lint-free cloth.
- 2. Check all seals and replace if necessary.

G. To Install a New Element Cartridge

- 3. Lubricate all seals.
- 4. Mount new or cleaned filter cartridge.
- 5. Re-install the cover.
- 6. Torque the cover nuts per drawing.

Perform procedures B1 and B2 to ensure no leaks are present.





HOW TO ORDER:

Select the desired symbol (in the correct position) to construct a model code.

Example

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8
KLT	7	10Q	В	P	G	S24	1

	lter Series Description
KLT	Single Port Return-Line Filter
KLS	Dual Port Return-Line Filter (230 & 300 only)

	BOX 2: Model		
Symbol	Description		
2	30 GPM (115 l/m) nominal flow		
4	50 GPM (190 l/m) nominal flow		
7	100 GPM (380 l/m) nominal flow		
8	120 GPM (455 l/m) nominal flow		

	edia Code Description	
02Q	Microglass III, 2 micron	
05Q	Microglass III, 5 micron	
10Q	Microglass III, 10micron	
20Q	Microglass III, 20micron	
WR	Water Removal	

BOX 4: Se	eals	
Symbol	Description	
B	Nitrile	
V	Fluorocarbon	
*Note: Nitrile tank gasket always supplied.		

Please note the bolded options reflect standard options with a reduced lead-time. Consult factory on all other lead-time options.

BOX 5: Indicator Symbol Description	
Р	No indicator; plugged pressure port(s)
G	Pressure Gauge, 0-60 PSIG
S	Pressure Switch

BOX 6: By	/pass
Symbol	Description
G	25 PSI (1.7 bar) setting

BOX 7: Po Symbol	ort Description
KLT-2/4 S16	SAE-16 (1 5/16"-12)
KLT-7/8 S24	SAE-24 (1 7/8"-12)
KLS-7/8 S24	2 x SAE-24 (1 7/8"-12)

BOX 8: Options Symbol Description			
1	None		
TP	Weld Plate (KLT only)		

Replacement Elements

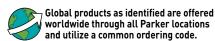
Element	ent Nitrile			Fluorocarbon				
Code	2	4	7	8	2	4	7	8
20Q	936967Q	936971Q	936975Q	936979Q	937269Q	937273Q	937277Q	937281Q
10Q	936966Q	936970Q	936974Q	936978Q	937268Q	937272Q	937276Q	937280Q
05Q	936965Q	936969Q	936973Q	936977Q	937267Q	937271Q	937275Q	937279Q
02Q	936964Q	936968Q	936972Q	936976Q	937266Q	937270Q	937274Q	937278Q
WR	937258	937259	937260	937261	C.F.	C.F.	C.F.	C.F.

C.F. = Consult Factory

Replacement Cover Kits

Cover Kit					
Assemb	P/N				
KLT	2/4	937049			
	7/8	937047			
KLS	7/8	937048			





Notes

